CELCON® NX-20 LOF

CELCON®

A friction and wear resistance grade for general injection molding. Emission optimized.

Product information

Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469

Rheological properties

Melt mass-flow rate	13	g/10min	ISO 1133
Melt mass-flow rate, Temperature	374	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	2.0	%	ISO 294-4, 2577

Typical mechanical properties

Tensile stress at yield, 50mm/min	8000	psi	ISO 527-1/-2
Nominal strain at break	18	%	ISO 527-1/-2
Flexural modulus	341000	psi	ISO 178
Flexural strength	11000	psi	ISO 178
Charpy notched impact strength, 23°C	1.62	ftlb/in^2	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	194	°F	ISO 75-1/-2

Electrical properties

Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2

Physical/Other properties

Density	0.0498	lb/in^3	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	365	°F
Min. melt temperature	356	°F
Max. melt temperature	374	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	140	°F
Max. mold temperature	176	°F
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	2h^2-3	s

Revised: 2025-01-23 Source: Celanese Materials Database

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Characteristics

Processing	Injection Molding
Special characteristics	Low wear / Low friction, Low emissions

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